AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An acoustic wave transducer comprising ~~Transducer that works with surface acoustic waves and contains~~:

an acoustic spur ~~(AS) that has~~ comprising electrode fingers ~~of~~ for different electrodes, ~~(E1, E2) that engage~~ the electrode fingers engaging to form exciting finger pairs ~~one another~~, the acoustic spur comprising marginal areas and an excitation area, the electrode fingers engaging in the excitation area, the marginal areas and the excitation area being located along a transverse direction of the acoustic wave transducer;

~~whereby in the acoustic spur (AS) an acoustic wave is excitable that is characterized by a transversal basic mode,~~

~~whereby the acoustic spur (AS) is divided in the transversal direction (Y) into an excitation area (MB) and two marginal areas (RB1, RB2),~~

~~whereby the~~ wherein a longitudinal phase speed of ~~the~~ an acoustic wave in the acoustic spur is less in a marginal area ~~(RB1, RB2) is less~~ than in the excitation area; ~~(MB),~~

wherein the acoustic wave is excitable and has a transversal basic mode;

~~whereby~~ wherein the following applies in the transversal basic mode for ~~the~~ a wave number k_y ~~of the transversal basic mode the following applies~~:

$(k_y)^2 > 0$ in a marginal area, ~~(RB1, RB2)~~ and

$(k_y)^2 < 0$ in an exterior area ~~(AU1, AU2)~~ outside the acoustic spur;

and ~~(AS),~~

~~whereby~~ wherein ~~in the excitation area (MB)~~ k_y is ~~numerically substantially~~ smaller in the excitation area than in the marginal areas ~~(RB1, RB2)~~ and in the exterior area ~~areas (AU1, AU2)~~.

2. (Currently Amended) The acoustic wave transducer of ~~Transducer in accordance with~~ claim 1, wherein ~~in which~~ k_y [[= 0]] equals about zero in the excitation area ~~(MB)~~.

3. (Currently Amended) The acoustic wave transducer of ~~Transducer in accordance with~~ claim 1, ~~in which~~ wherein the excitation area ~~(MB) is divided in the transversal direction (Y) into several~~ comprises partial spurs in the transverse direction, ~~(TB1, TB2, TB3, TB4)~~ the partial spurs corresponding ~~that correspond~~ to partial transducers that are ~~switched to one another~~ interconnected in series and/or in parallel.

4. (Currently Amended) The acoustic wave transducer of ~~Transducer in accordance with~~ claim 3, ~~whereby~~ wherein the partial spurs are substantially identical in a ~~designed identically in the~~ longitudinal direction, and at least two of the partial spurs have different widths; and ~~(X) up to their width,~~

~~whereby the width of~~ wherein the partial spurs ~~is selected so~~ have widths that adapt a ~~the~~ transversal profile Ψ_y of ~~the~~ an excitation strength in the excitation area ~~(MB) is adapted~~ to ~~the~~ a shape Φ_y of the transversal basic mode.

5. (Currently Amended) The acoustic wave transducer of ~~Transducer in accordance with~~ claim ~~3 or~~ 4, in which the following applies for adapting the transversal profile Ψ_y of the excitation strength to the shape Φ_y of the transversal basic mode, where "y" corresponds to the transverse direction:

$$\int \Psi_y \Phi_y \, dy \Big/ \sqrt{\int \Psi_y^2 \, dy \cdot \int \Phi_y^2 \, dy} \geq 0{,}9 .$$

6. (Currently Amended) The acoustic wave transducer of claim 3, ~~Transducer in accordance with any of claims 3 through 5, in which~~ wherein the partial spurs comprise ~~have~~ a center partial spur ~~(MT)~~ and ~~two~~ marginal partial spurs; ~~(RT1, RT2),~~

~~whereby~~ wherein the marginal partial spurs ~~(RT1, RT2)~~ are ~~switched~~ interconnected in series ~~with one another~~ and form a ~~serial~~ series circuit[[,]];

~~whereby~~ wherein the ~~serial~~ series circuit is ~~switched~~ connected in parallel to the center partial spur; and ~~(MT),~~

~~whereby the~~ wherein a width of the center partial spur ~~(MT)~~ is greater than a ~~the~~ width of ~~the~~ a marginal partial spur ~~(RT1, RT2)~~ by at least a factor of five [[5]].

7. (Currently Amended) The acoustic wave transducer of claim 1, wherein ~~Transducer in accordance with any of claims 1 through 6, in which~~ the marginal areas ~~(RB1, RB2) are each designed as~~ each comprise a continuous metal strip in ~~the~~ a longitudinal direction and ~~with~~ have a ~~transversal~~ transverse width of $\lambda_y/4$, where λ_y is a wavelength of the transversal basic mode in a corresponding marginal area.

8. (Currently Amended) The acoustic wave transducer of ~~Transducer in accordance with any of claims 1 through 6, in which the~~ claim 1, wherein a number of ~~the~~ electrode fingers per unit of length is greater in the marginal areas ~~(RB1, RB2) is greater~~ than in the excitation area ~~(MB)~~.

9. (Currently Amended) The acoustic wave transducer of claim 1, ~~Transducer in accordance with any of claims 1 through 8, in which~~ wherein the electrode fingers for ~~of~~ different electrodes ~~(E1, E2) are arranged in the excitation area (MB) on~~ define a periodic grid in the excitation area.

10. (Currently Amended) The acoustic wave transducer of ~~Transducer in accordance with any of claims 1 through 8, in which~~ claim 1, wherein the excitation area ~~(MB) in the longitudinal direction is divided into~~ comprises unidirectionally radiating or reflecting cells in a longitudinal direction of the acoustic wave transducer; and[[,]]

~~whereby several~~ wherein electrode fingers in the excitation area ~~(MB)~~ that are ~~arranged~~ adjacent ~~to one another~~ in the longitudinal direction ~~form~~ define a cell ~~with radiation of~~ to radiate the acoustic wave in a ~~preferred~~ specific direction or a cell with a reflecting effect.

11. (Currently Amended) The acoustic wave transducer of ~~Transducer in accordance with any of claims 1 through 10, in which, in addition to the first acoustic spur (AS),~~ claim 1, wherein the acoustic spur is a first acoustic spur, and wherein the acoustic wave transducer further comprises:

at least one additional acoustic spur ~~(AS') is provided that is divided into~~ comprising an excitation area ~~(MB')~~ and marginal areas ~~(RB1', RB2')~~, the at least one additional acoustic spur being substantially ~~and is constructed largely~~ identical to the first acoustic spur ~~(AS)~~, ~~whereby~~ wherein the ~~acoustic spurs (AS, AS')~~ first acoustic spur and the at least one additional acoustic spur are ~~arranged~~ parallel; and ~~to one another,~~

~~whereby~~ an intermediate area ~~(ZB) is arranged~~ between ~~two~~ acoustic spurs;[[,]]

~~whereby the~~ wherein widths of ~~the~~ marginal areas ~~(RB1, RB2, RB1', RB2')~~ of the acoustic spurs ~~(AS, AS') are selected so that the~~ produce a wave number k_y in the intermediate area ~~(ZB) is numerically~~ that is smaller by at least one order of magnitude than in the marginal areas ~~(RB1, RB2)~~ and in ~~the~~ exterior areas of the acoustic spurs; and ~~(AU1, AU2),~~

~~whereby the~~ wherein a phase speed in ~~the~~ excitation areas ~~(MB, MB')~~ of different acoustic spurs ~~(AS, AS')~~ and in the intermediate area ~~(ZB)~~ is essentially ~~the~~ same.

12. (Currently Amended) The acoustic wave transducer of ~~Transducer in accordance with~~ claim 11 [[1]], ~~in which the~~ wherein a number of electrode fingers per unit of length in the intermediate area (ZB) is essentially equal to ~~the~~ a number of electrode fingers per unit of length in ~~the~~ excitation areas ~~(MB, MB')~~ of different acoustic spurs ~~(AS, AS')~~.

13. (Currently Amended) The acoustic wave transducer of ~~Transducer in accordance with~~ claim 12, ~~in which the~~ wherein electrode fingers in the intermediate area ~~(ZB) are arranged on~~ define a periodic grid.

14. (Currently Amended) The acoustic wave transducer of claim 1 ~~Transducer in accordance with any of claims 1 through 13~~, ~~whereby the~~ wherein a width of a marginal area ~~(RB1, RB2)~~ in the ~~transversal~~ transverse direction is essentially $\lambda_y/4$, ~~whereby~~ where λ_y is ~~the~~ a wavelength of the transversal basic mode in ~~the~~ a corresponding marginal area ~~(RB1, RB2)~~.

15. (Currently Amended) A filter comprising the acoustic wave transducer of claim 1 ~~Filter with at least one transducer in accordance with claims 1 through 14~~.